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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,065	03/16/2004	Moon Gul Choi	1002-001	3774

7590

06/27/2005

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EXAMINER

EDMONDSON, LYNNE RENEE

ART UNIT PAPER NUMBER

1725

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/802,065

Applicant(s)

CHOI ET AL.

Examiner

Lynne Edmondson

Art Unit

1725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 March 2004.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-26 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-26 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 16 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 22, 24 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Weglin (USPN 3172382).

Weglin teaches a desoldering sheath comprising a grommet (16), a hollow metal wire (8) with a tapered end mounted to the grommet and a grommet fastener (26) to secure the metal wire to the grommet (figure 3 and col 1 line 66 – col 2 line 38).

3. Claims 1-9, 15, 18 and 20-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Vanyi (USPN 3580462).

Vanyi teaches a desoldering sheath comprising a hollow metal wire (62) or plurality of metal wires (50,78) forming a tip (figures 1-7 and col 5 lines 16-52) of a soldering gun or iron (col 3 line 70 – col 4 line 5) wherein the tip has a variety of shapes including cone shaped, edge shaped, square, round or angled (figures 1, 3, 4, 6a, and 27-29). The wire may comprise coiled wire (figure 10 and col 5 line 62 – col 6 line 5) or plurality of parallel wires, which are cut into a V-shape and joined together by known methods such as coating with a bonding material or welding (col 5 lines 52-61) and affixed with a grommet (28) and fastener (32) (figure 1).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 16, 17 and 19 rejected under 35 U.S.C. 103(a) as being unpatentable over Vanyi (USPN 3580462) in view of Spirig (USPN 4323631).

Vanyi teaches a desoldering sheath comprising a hollow metal wire (62) or plurality of metal wires (50,78) forming a tip (figures 1-7 and col 5 lines 16-52) of a soldering gun or iron (col 3 line 70 – col 4 line 5) wherein the tip has a variety of shapes including cone shaped, edge shaped, square, round or angled (figures 1, 3, 4, 6a, and 27-29). The wire may comprise coiled wire (figure 10 and col 5 line 62 – col 6 line 5) or plurality of parallel wires, which are cut into a V-shape and joined together by known methods such as coating with a bonding material or welding (col 5 lines 52-61) and affixed with a grommet (28) and fastener (32) (figure 1). Although any known fusing or bonding method may be employed (col 5 lines 52-59) there is no disclosure of an adhesive.

Spirig teaches a desoldering tool wherein multiple wires (fibers) are joined together by a rosin adhesive (col 3 lines 1-10).

It would have been obvious to one of ordinary skill in the art at the time of the invention that adhesive bonding is a conventional and cost-effective bonding method as well as an obvious variation of brazing.

***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kaneko (US 2002/0153404 A1, tip shapes), Bertram et al. (USPN 5072874), Hood, Jr. (USPN 3627191, rosin), Fortune (USPN 3263889, grommet), Nicosia (USPN 3881087, wire), Forsha (USPN 5083698), Spirig (RE 32086), Kent et al. (USPN 5305941) and Chaikin (USPN 4137369).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Art Unit: 1725

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Lynne Edmondson  
Primary Examiner  
Art Unit 1725

LRE

LYNNE R. EDMONDSON  
PRIMARY EXAMINER

*KE*  
*6/23/08*